Cold Air Damming Types

The information presented here is based on research conducted by the National Weather Service and North Carolina State University, funded by CSTAR grant NA-07WA0206.

		Precip within 6 hrs of onset			No precip within 6 hrs of onset	
TYPE		CDEN (Classical, Diabatically Enhanced)	HYBR (Hybrid)	INST (In Situ)	CDRY (Classical, Dry)	WKDR (Weak Dry)
Characteristics		 Stg PJ, weak STJ 850mb waa Strong high, favorable location 	 Wkr PJ than CDEN 850mb waa Weak high, &/or unfavorable location 	 Pronounced STJ Strong 850mb waa Offshore high, wk ridge back into NC, Gulf states low 	 Wk PJ, no STJ No 850mb waa Strong high, favorable location 	 Wkr PJ entrance region than CDRY No 850mb waa Weak high, &/or unfavorable location
250 mb	T-24H	1620 1620 1020	1020 1020 1020 1020 1036 17 HYBR onset centered, time - 24 250 hPa geopotential height, isotachs	1082 1082 1082 1082 1082 1082 1082 1082 1082 1082 1082 1082 1082 1082 1082 1082 1082 1083 1084 1084 1084 1085 1086	996 1000 1004 1	104 104 104 104 104 104 104 104
	T-00H	1020 1020 1020 1020 1020 1020 1020 1020	1996 1996 1996 1996 1997 1997 1997 1998	Tozo 103 104 105 105 105 105 105 105 105	1026 1026 1026 1026 1026 1026 1026 1026 1026 1026 1027 1027 1028 1038 104 1058 1	1068 1068
	Event peak	1026 1026 1026 1026 1026 1026 1026 1026	996 1020 17 H788 peak cent or ed. 11 me 000 250 H53 person cent al met off 1201 achs.	996 996 996 996 996 996 996 996 996 996	1026 1026	1020 1020
850 mb	T-24H	19 CPEN onset centered, it me_244_ 1850 bba geooot ential height, 8k4_T	1,158 17 HYBR onset centered, time -24, 11 Helphi, 11	75 06 INST onset centered, time -24, 25 ob bea geopotential beliaht. BH T	71 CDRY onset centered, time 24 to 350 bits agreement all beliaht. Bit T	193 193 193 193 193 193 193 193
	T-00H	19 CPN onset centered, time 2000 and 19 belabil, 880 T	135 135 135 135 135 135 135 135 135 135	138 144 150 150 150 150 150 150 150 150	156 71 CORY onset centered, time good tential has different and the control of t	147 8 147 8
	Event peak	12 Table 1 Tab	12 12 155 15 HYBR peak center ed, time 000 850 hPa geodor ential beindt net T	38 15T peak centered, time 690 T	71 CTRY peak centered, time 800 soon tent si her oht. 8Hi T	31 WXX peak centered, time 000 and the other states of the other s
MSLP	T-24H	18 19 CDEN onset centered, time -24 sea level pressure and anomaly	20 17 Hybr onset centered, time -24 sea level pressure and anomal y	6 OS INST onset centered, time -24 sea level pressure and anomal v	71 CDRY onset centered, time -24 sea level pressure and anomaly	31 WCR onset centered, time -24
	T-00H	19 CEN onset centered, time 000 sea level pressure and anomal v	16 17 Hybra onset centered, time 000 sea level pressure and anomaly	06 1NST onset centered, time 000 sea level pressure and anomal v	18 18 18 22 22 22 22 22 22 22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Event peak				222	

Impact on High Temperature		Little or no departure from normal high temps	Much below normal high temps	
250 mb	T-24H	1020 1020 1020 1020 1044 1044 1094 1094 1096 1008 1008 1008 1008 1008 1008 1008 100	103 103 103 103 103 103 103 103	
	T-00H	1044 1044 1044 1044 1044 1056 1088	7032 1080	
850 mb	T-24H	141 133 133 133 133 133 133 133 133 133	Had I mact onset centered, time 224 850 Pla geopotential fields time 7	
	T-00H	Low I mpact onset centered, time 000 850 lbFa occoporential heliotit. Bit T	High I mpact onset centered, time 000 BSO Pra geopotential height. Bit T	
MSLP	T-24H	20 16 16 16 16 16 16 16 16 16 16 16 16 16	1 1 1 High I mpact onset centered, time -24 sea level pressure and anomaly	
	T-00H	14 Low I mpact onset centered, time 000 sea Tevel pressure and anomaly	20 20 20 20 20 20 20 20 20 20 20 20 20 2	

